

Figure 1

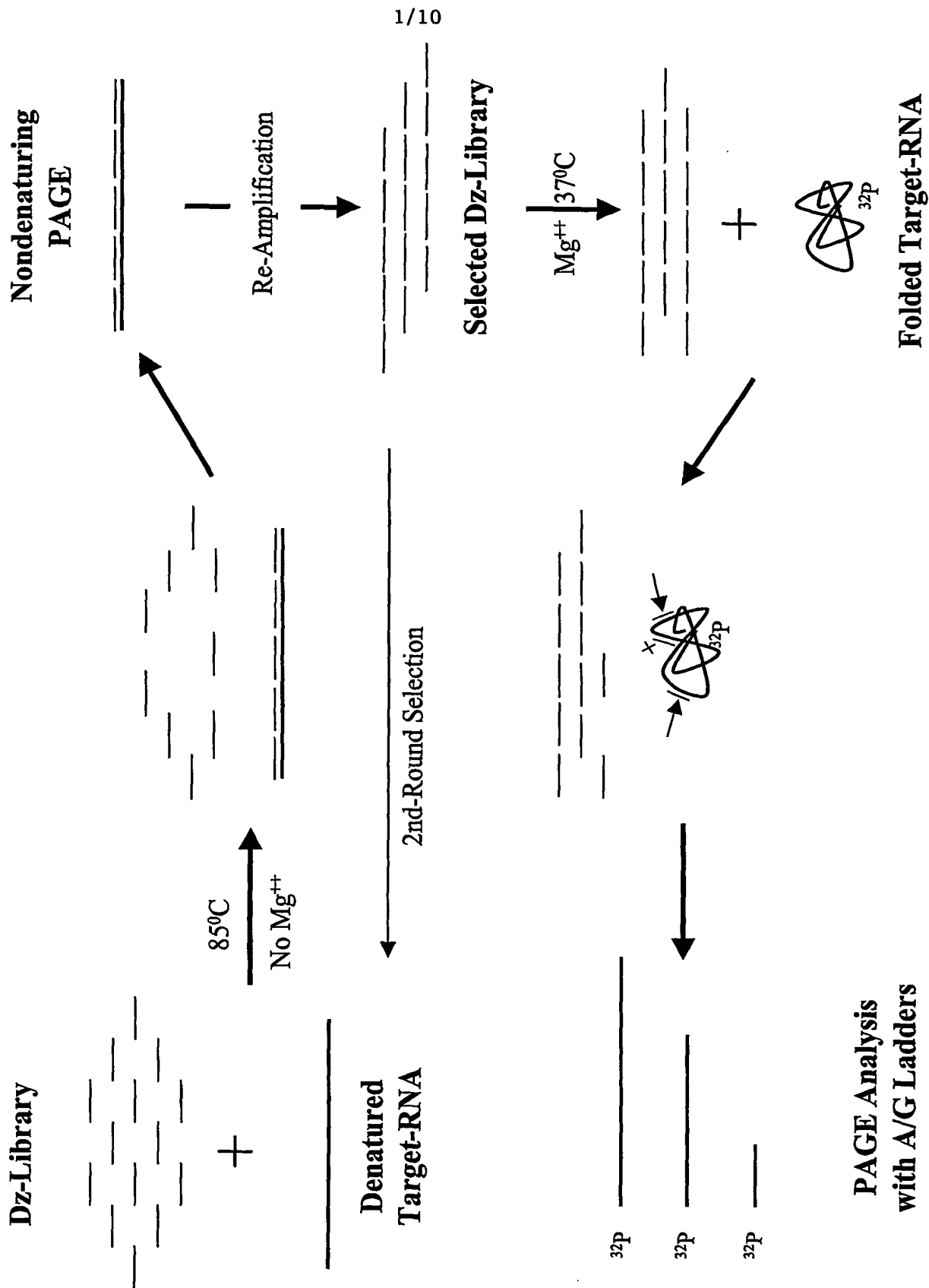


Figure 2

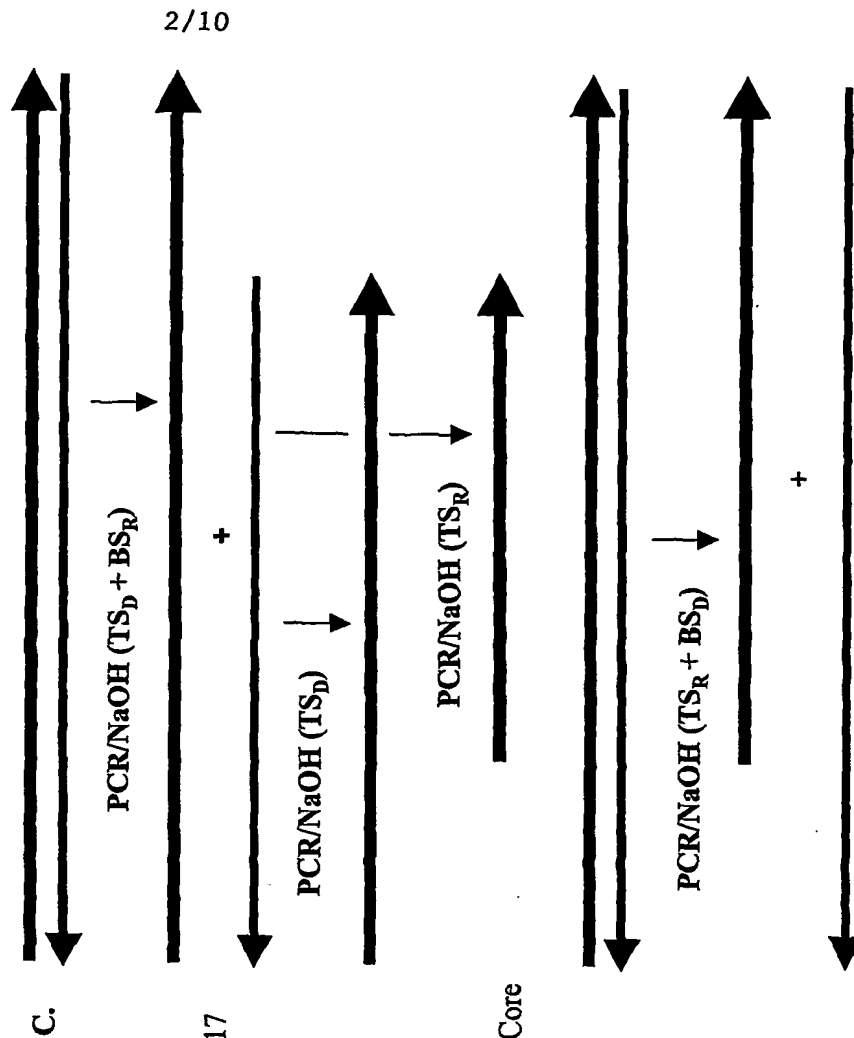
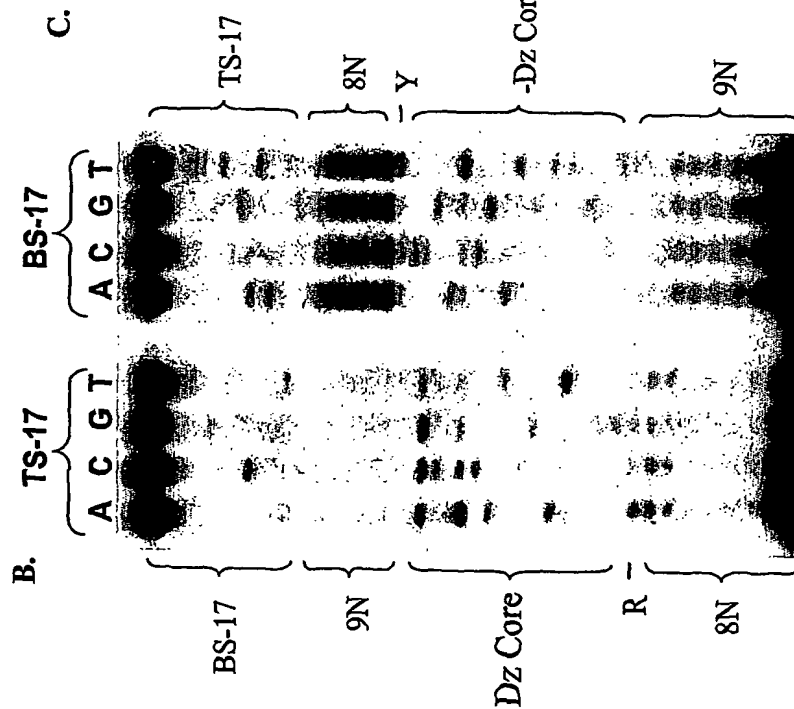
A.

TS-17 Primer
 5' - CAGGAAA CAGCTATGAC - 3'
 5' - CAGGAAA CAGCTATGACNNNNNNNRGGCTAGCTACAACGANNNNNNNNCTGGCCGTCGTTTACAC - 3'
 3' - GACCCGGCAGCAAAATGT - 5'

PCR ↓

BS-17 Primer

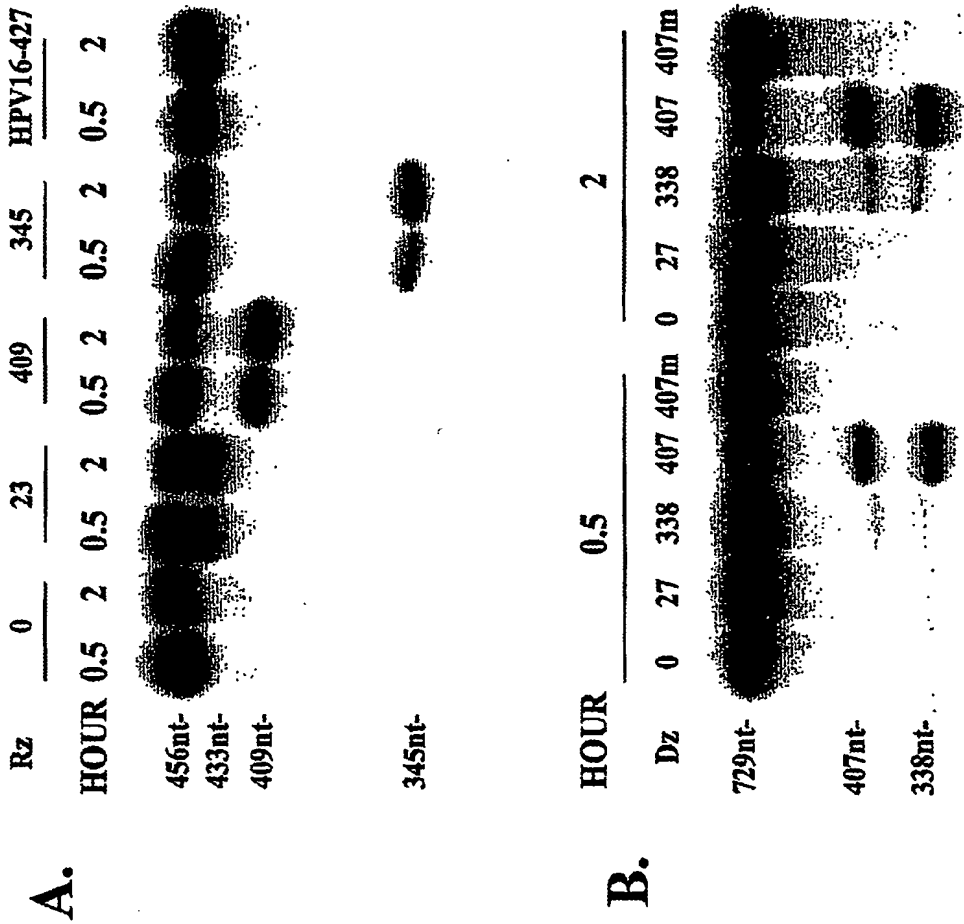
5' - CAGGAAA CAGCTATGACNNNNNNNRGGCTAGCTACAACGANNNNNNNNCTGGCCGTCGTTTACAC - 3'
 3' - GTCCCTTGTGCGATACCTGNNNNNNNNYCCGATCGATGTTGCTNNNNNNNNGACCCGGCAGCAAAATGT - 3'



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The diagram illustrates a DNA molecule with a 5' poly(A) tail and a 3' phosphate group. The 5' end is labeled "5'-AAAAA" followed by a wavy line representing the tail. The 3' end is labeled "TGTAACGACGGCCAG-3'" followed by a wavy line. The two strands are connected by a series of six oxygen atoms (O) linked by single bonds, forming a bridge between the two strands. The phosphate group is shown as a phosphorus atom (P) double-bonded to an oxygen atom (O) and single-bonded to two hydroxyl groups (OH). The phosphate group is connected to the 3' end of the DNA strand via a single bond to an oxygen atom (O).

Figure 4



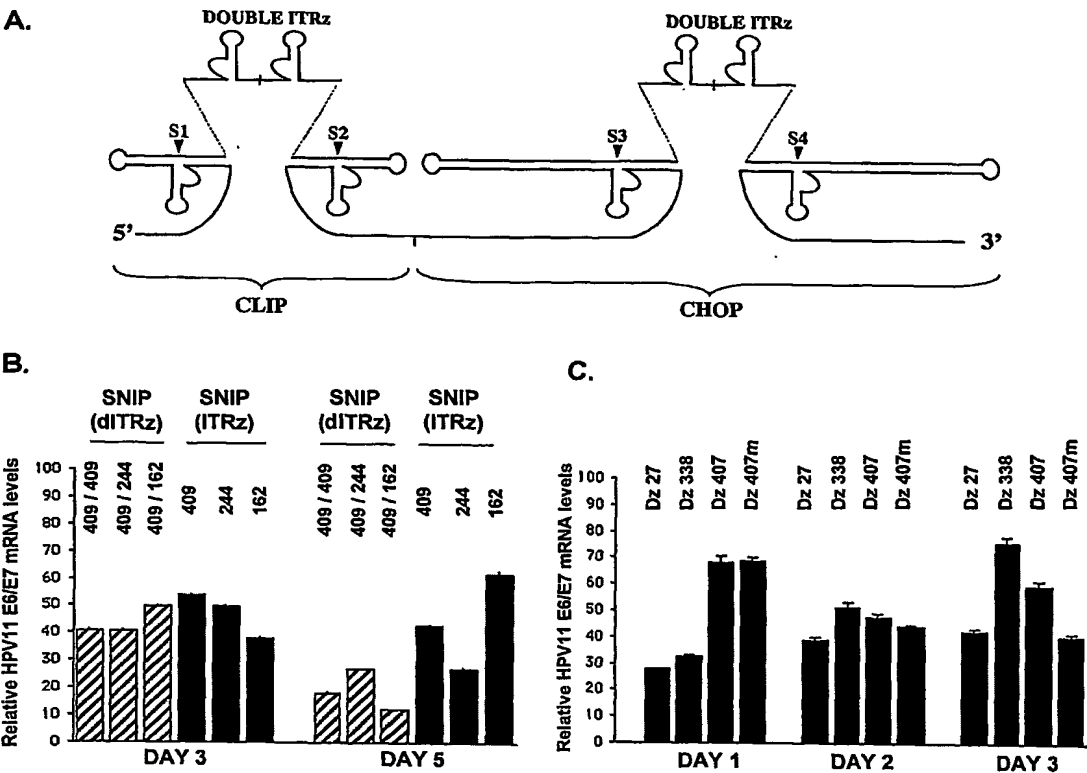
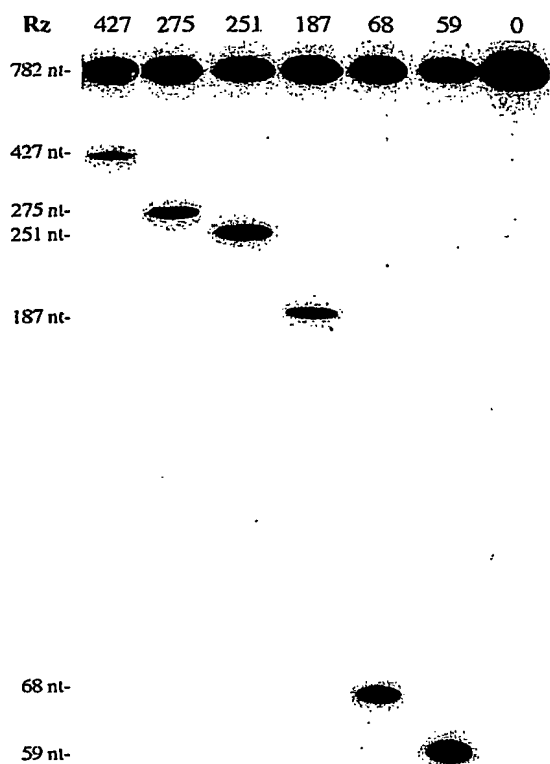


Figure 5

6/10

A.



B.

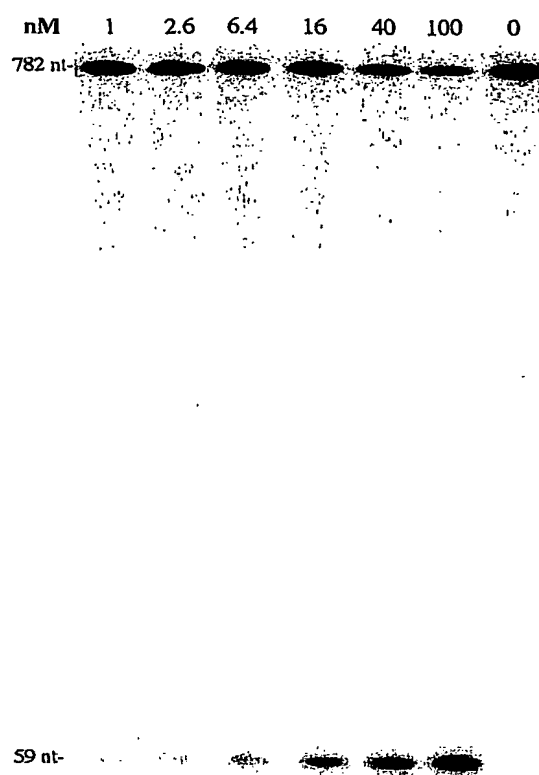


Figure 6

7/10

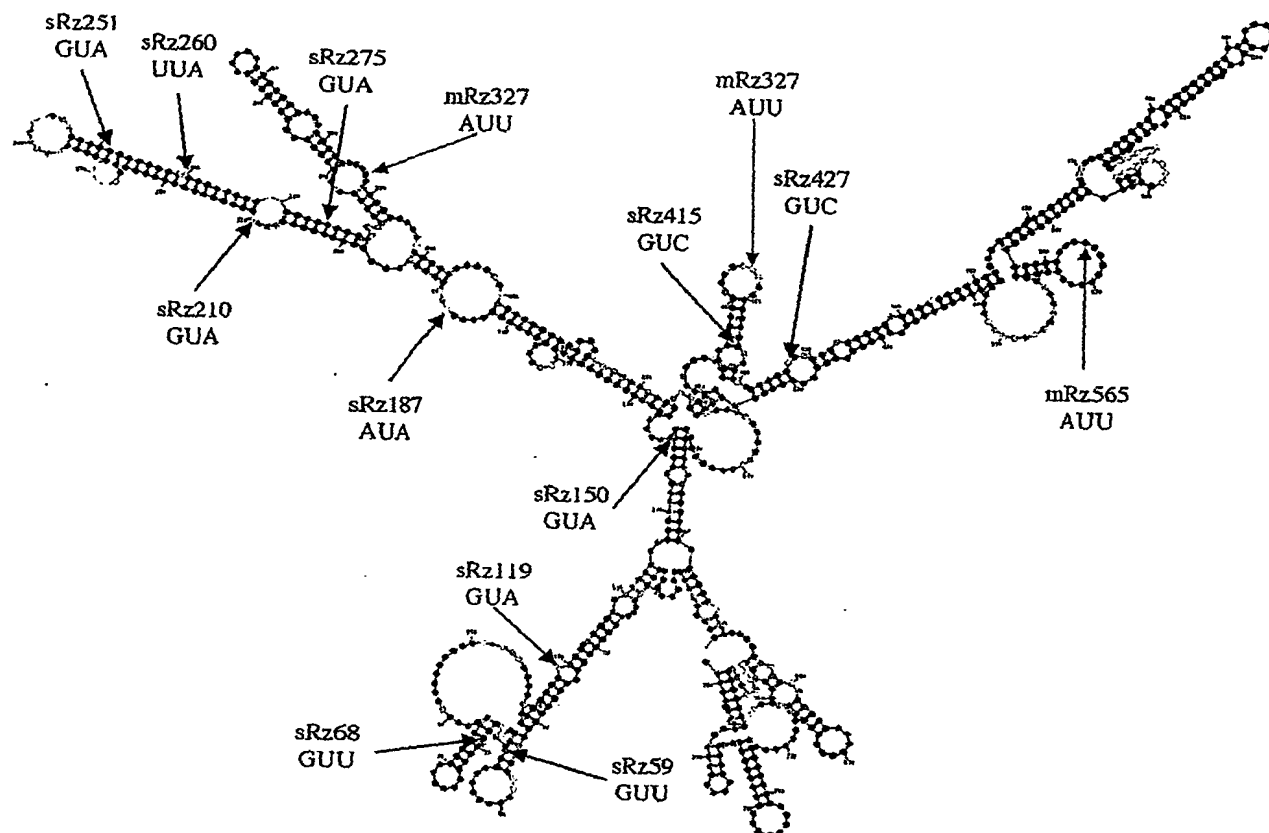
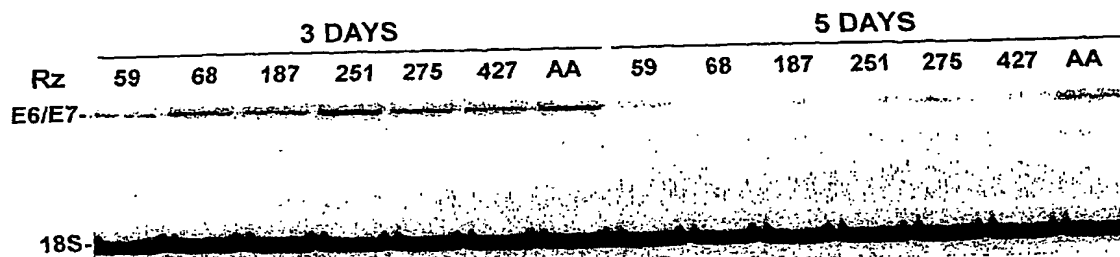


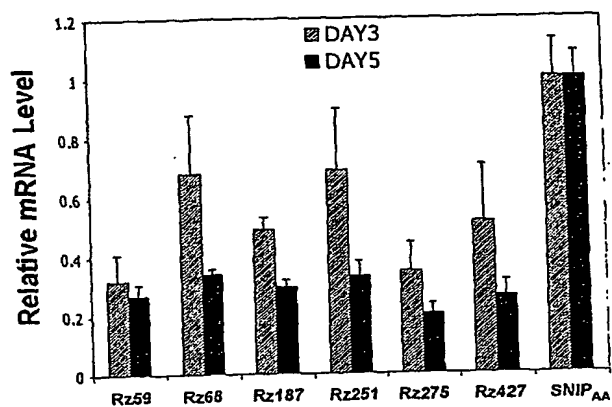
Figure 7

8/10

A.



B.



C.

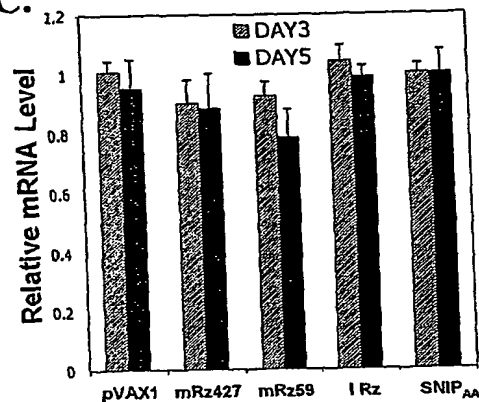
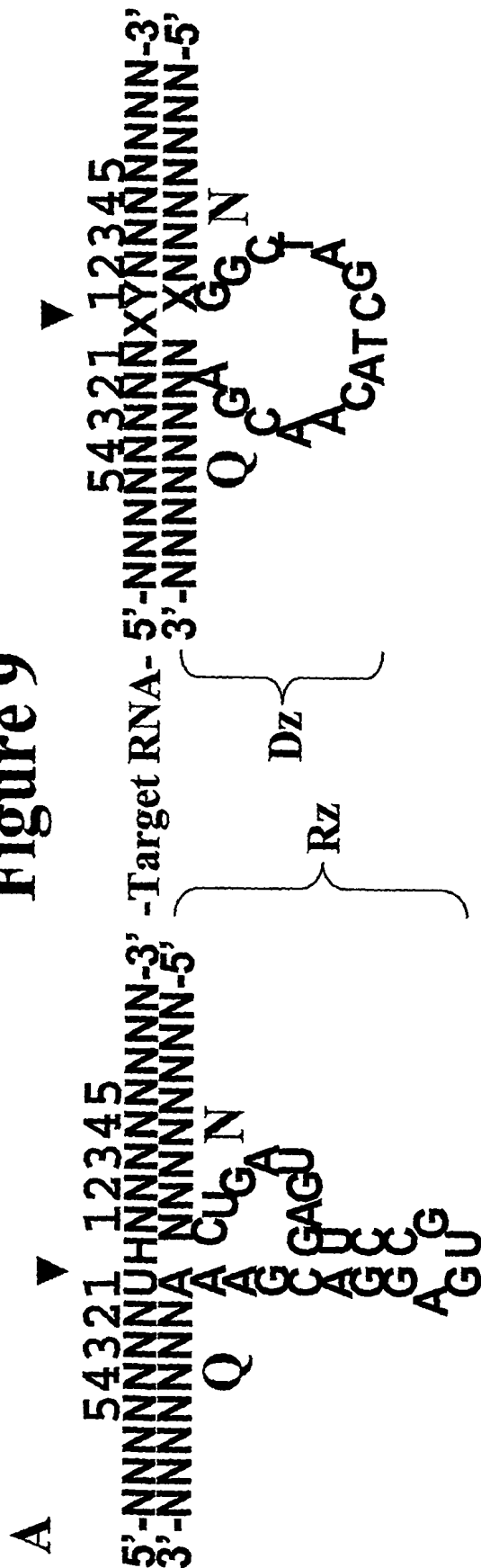


Figure 8

9/10

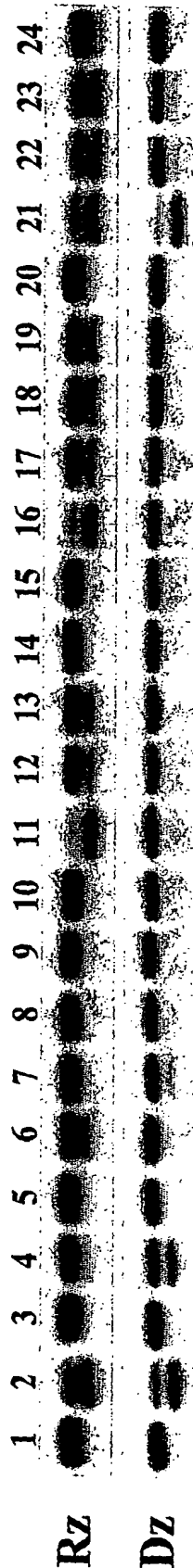
Figure 9



H=A, C, U

X=A, G, C, T; Y=A, G, C, T

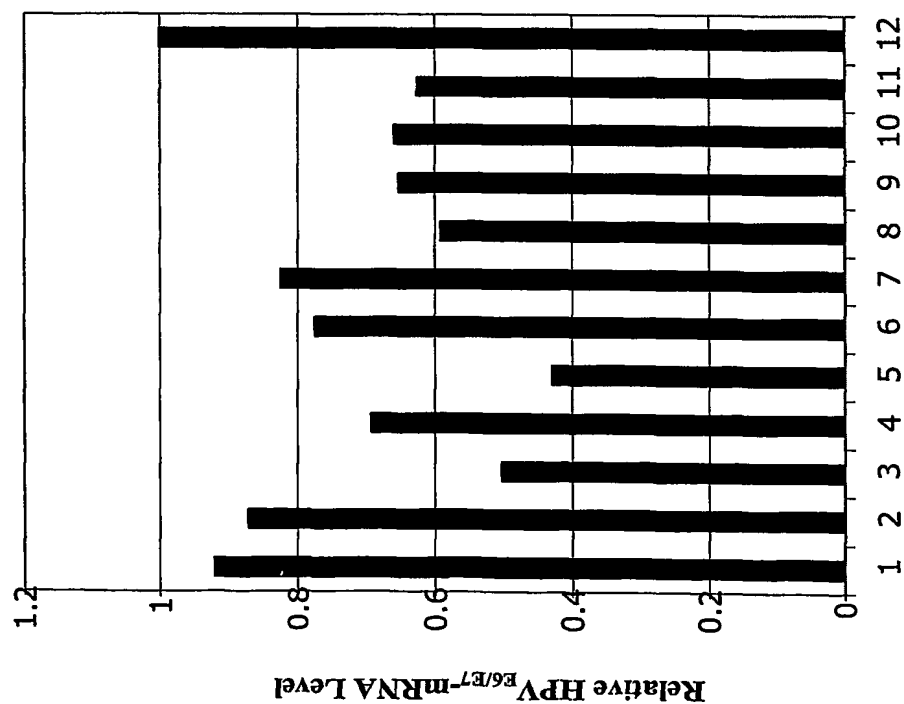
B



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Figure 10

A



B

